

**Scope of Work for a Study to Determine the Presence and Source of Human Pathogenic Viruses in the Recreational Waters of Mission Bay and Associated Health Risks**

TASK	DESCRIPTION OF WORK
<b>1. Study Design:</b> <b>* Note</b>	<p>Stakeholder Gathering (Non-Government Organizations, the City of San Diego, SDRWQCB, San Diego County Department of Environmental Health, San Diego State University, University of California at Irving, Southern California Coastal Waters Research Project):</p> <ul style="list-style-type: none"> <li>• Meeting to design study to ensure its ability to answer management questions of interest with specified levels of scientific certainty.</li> <li>• Project and funds will be managed through contractual arrangements with SCCWRP, UC-I and SDSU. Funds will be distributed to the respective contractual agency upon completion of each study step. Data from studies will be submitted and reviewed bi-monthly by the stakeholder group.</li> </ul>
<b>2. Sampling and Analysis of Five Shoreline Points in Mission Bay:</b> <b>* Note</b>	<ul style="list-style-type: none"> <li>• Study to determine the magnitude and extent of human fecal contamination in receiving water. Study to be conducted during dry and wet weather periods.</li> </ul>
<b>3. Sampling and Analysis of Source Inputs to Mission Bay for Human-Specific Contamination:</b> <b>* Note</b>	<ul style="list-style-type: none"> <li>• Study to identify locations and times at which human specific contamination is present.</li> <li>• Success of project steps 2 and 3 will be measured by the ability to verify or negate the presence of human pathogenic viruses in Mission Bay and to determine the locations of input for contamination.</li> </ul>
<b>4. Collaborative Epidemiology Study to Quantify Swimmer Health Risk at Specific Locations in Mission Bay:</b> <b>* Note</b>	<ul style="list-style-type: none"> <li>• Epidemiology Study using data from scope of work steps 2 and 3 to determine actual associated threats to human health from swimming at bacterial contaminated beaches.</li> <li>• Success of project step 4 will be determined by the ability to identify relative risks to human health and to develop strategies to minimize these risks.</li> </ul>
<b>5. Data Analysis/Assessment and Final Report Generation:</b> <b>* Note</b>	<ul style="list-style-type: none"> <li>• Compilation of viral study, source identification study and epidemiology study.</li> <li>• Success of the study will be measured by the ability to ascertain the presence of human pathogenic viruses in Mission Bay, the probable source of viral/bacterial contamination, the largest areas of input for contamination, and the relative risks of human disease associated with the identified contaminant.</li> </ul>
<b>6. Evaluation of Management Measures To Reduce Loads of Human-Specific Contributions to Mission Bay:</b> <b>* Note</b>	<ul style="list-style-type: none"> <li>• Meeting of stakeholders to review data and to determine the most effective and efficient measures to abate or control the contaminant inputs.</li> </ul>
<p><b>*NOTE: A GANT CHART DISPLAYING PROPOSED TIMELINE FOR THIS PROJECT WILL BE SUBMITTED IN THE SUPPLEMENTAL AGENDA MATERIAL</b></p>	